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of said solid electrolytic substrate layers and said at least one insulating substrate layer; and]

said [first and second boundary layers have] boundary layer has a sintered particle size larger than [those] that of said [substrate layers] solid electrolytic substrate layer or said insulating substrate layer.

Claim 2, line 2, replace "first and second boundary layers have" with --
boundary layer has--.

Claim 4, line 2, replace "first and second boundary layers comprise" with --
boundary layer comprises--.

Claim 6, line 2, replace "first and second boundary layers have" with --
boundary layer has--.

Add new claims 7 and 8 as follows:

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7. The multilayered air-fuel ratio sensor according to claim 1, wherein said multilayered substrate layers comprise a plurality of solid electrolytic substrate layers, and said boundary layer is interposed between two solid electrolytic substrate layers without any other intervening layer.

8. The multilayered air-fuel ratio sensor according to claim 1, wherein the sintered particle size of said boundary layer is larger than that of said solid electrolytic substrate layer and said insulating substrate layer.--